

10/522563

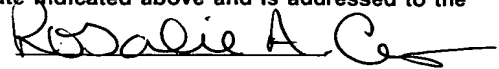
DT05 Rec'd PCT/PTO 11.9 JAN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Rosalie A. Centeno, Secretary

In the application of: Anatol Schwresenz et al

Serial Number: Not Yet Assigned (Based on PCT/EP2003/007494 filed 10 July 2003
and DE 102 32 984.2 filed 19 July 2002)

Filing Date: January 19, 2005

For: A NOZZLE ASSEMBLY FOR APPLYING A LIQUID TO A
SUBSTRATE

Customer Number: 30996

Commissioner of Patents
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 CFR § 1.56, Applicant wishes to call the attention of the Examiner to the following reference:

- 1) EP 0 366 962
- 2) GB 2 127 326
- 3) GB 1 500 060
- 4) JP 102 70 336
- 5) DE 39 32 779
- 6) US 5,914,155

- 7) US 6,471,775 (corresponds to DE 197 55 625)
- 8) US 6,364,547

Reference 1 is mentioned in the specification of the instant application on page ????.

References 2 – 4 and 6-8 are in the English language and therefore needs no further discussion as to its relevance. In accordance with US patent law and practice it is no longer necessary to enclose copies of US patent references.

Reference 5 discloses an invention that is based on a method for treating, including flushing, objects (1, 1') such as printed-circuit boards, especially constructed in the form of boards, by means of a flowing fluid which is applied to the objects as a flowing wave, the objects preferably being transported in the horizontal position and being able to have continuous holes (4) and/or blind holes (5). In order to facilitate the advantage of a uniform wave flow with a production cost which is significantly lower than the prior art it is provided to this end that the fluid flow is given a flattened form (13) with an approximately uniform thin cross-section by spreading the fluid flow apart, preferably into a plurality of partial fluid flows (10) which are located side-by-side at a distance and are of approximately circular cross-section, that this flattened fluid flow (13) runs approximately at right angles to the transportation direction (2) of the objects (1, 1') to be treated and is applied to the object at an incidence angle (α). The invention furthermore relates to a device for carrying out the method, having a plate-shaped guide device (12), which is at an acute impact angle (β) with respect to the outlet direction (10) of the treatment fluid and forms the incidence angle (α) with respect to the object to be treated.

A copy of the listed document is submitted herewith (with the exception of any US patent references) along with the form PTO-1449.

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It is respectfully requested that any fees required and not enclosed herewith or any shortages in any fees be charged to Deposit Account 02-1653.

Consideration of the foregoing in relation to this application is respectfully requested.

Respectfully submitted,



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RWB/rac
Enclosures: PTO 1449
Reference (1)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Complete if Known	
		Application Number	Not Yet Assigned
		Filing Date	1/19/2005
		First Named Inventor	Anatol Schwresenz et al
		Group Art Unit	
		Examiner Name	
		Attorney Docket No.	SHT-3585

U. S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date
	6	5,914,155	6/22/1999	Kurtz			12/16/1997
	7	6,471,775	10/29/2002	Becker et al			10/17/1998
	8	6,364,547	4/2/2002	Matsuyama et al			10/23/2000

FOREIGN PATENT DOCUMENTS							
Examiner	Cite No.	Document	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes No
	1	Ep 0 366 962	09 May 1990	Europe			X
	2	GB 2 127 326	11 Apr 1984	Great Britain			X
	3	GB 1 500 060	8 Feb 1978	Great Britain			X
	4	JP 10270336	09 Oct 1998	Japan			X
	5	DE 39 32 779	11 Apr 1991	Germany			X

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	Citation

Examiner		Date	
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1/19/2005